

# Digital Application

All In One Step



Intraoral Scanning



Designing



3D Printing



Milling



Sintering



Finishing



## Specifications

DP-1000			
Dimensions	W380*L350*H680mm	Weight	26kg
Build volume	144*81*110mm	Light Source Type	DLP
Pixel Size	75µm	Resolution	1920x1080
Build Accuracy	30µm	Module Accuracy	Z axis:5µm XY axis:75µm
Printing Speed	60mm/h (max)	Repeatability accuracy	2µm
File Formats	STL/OBJ	Layer Thickness	50-100µm
Power Supply	220V/350W	User Interface	7 inches touchpad
Printable Materials	Dental models, implant surgical guide and gingiva resin.		
Operating Environment	Temperature: 20-30 °C; Humidity: <60°C; Good ventilation; Direct sunlight avoided.		

DP-2000			
Dimensions	W380*L350*H680mm	Weight	26kg
Build volume	192*108*110mm	Light Source Type	DLP
Pixel Size	50µm	Resolution	3840x2160
Build Accuracy	30µm	Module Accuracy	Z axis:5µm XY axis:75µm
Printing Speed	55mm/h (max)	Repeatability accuracy	2µm
File Formats	STL/OBJ	Layer Thickness	50-100µm
Power Supply	220V/350W	User Interface	7 inches touchpad
Printable Materials	Dental models, implant surgical guide and gingiva resin.		
Operating Environment	Temperature: 20-30 °C; Humidity: <60°C; Good ventilation; Direct sunlight avoided.		

# BSM

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# BSM-DP2000 BSM-DP1000

DLP 3D Printer



# BSM

# New Product Launch

**Build Volume Upgraded**  
**Efficiency Enhanced**

DLP Printer  
**BSM-DP1000**  
**Precise & Efficient**

*Precision Inspires Imagination* ①

*Efficiency, Instantaneously Delivered* ②



DLP Printer  
**BSM-DP2000**  
**Large Build Volume Improvement**

*High Stability No Deformation* ③

*Fast & Smart Slicing* ④

*User-friendly* ⑤

## Printing Materials

- **Low Risk:** Utilizes a new type of photoinitiator that is safer and eliminates reproductive toxicity risks associated with traditional TPO-based resins.
- **Low Odor:** Emits only a mild resin scent, offering a more user-friendly experience.
- **Low Irritation:** Made with low skin-irritation ingredients, ensuring extra care for user health.



### Model Resin

**High Precision:**  
Maintains a 97% overlap rate 7 days after printing, and >90% after 15 days.



### Surgical Guide Resin

**High Durability:**  
Retains high\*strength over time, preventing deformation or cracking after extended placement.



### Gingival Mask Resin

**Quick Surface Drying:**  
Provides a dry surface finish, making post-processing and usage easier.

**Tear Resistance:**  
Excellent tear resistance prevents cracking during use.

## Comprehensive Solutions in Dental Field



### ① Precision Inspires Imagination

The BSM-DP2000 brings digital-level precision. Equipped with Texas Instruments' DMD chip, industrial-grade UV LED, high-quality optical glass, and professional optical design, the 2-million+ micromirror industrial-grade DMD optical engine ensures every detail of the model is accurately and meticulously rendered.

- 405nm narrow-band UV light source for precise projection
- 4K ultra-high-definition resolution
- Industrial-grade high-precision motion module with 2μm repeatability, delivering smooth surfaces and exquisitely restored model details
- 30μm Forming Accuracy

### ② Efficiency, Instantaneously Delivered

The BSM-DP2000 utilizes DLP fast prototyping technology, enabling full-layer simultaneous exposure, which offers a significant speed advantage over SLA point-by-point exposure. With rapid curing and high forming efficiency, it reduces printing waiting times and enhances chairside treatment efficiency.

#### Printing speed:

- 25-27.5mm/h @ 50μm layer thickness
- 50-55mm/h @ 100μm layer thickness
- 10 half-arch dental models ≈ 55 minutes
- 8 surgical guide models ≈ 25 minutes

### ③ High Stability No Deformation

- 2-million+ micromirror industrial-grade DMD optical engine
- 20,000+ hours of operational lifespan
- 30μm, 98% consistency across multiple batches
- Minimal post-curing deformation, with 97% print overlap rate after 7 days

### ④ Fast and Smart Slicing

Smart start, automatic layout, and one-click support generation for effortless printing.

### ⑤ Precision & Customization

Anti-aliasing, hollowing function, bottom tolerance compensation, and support for 19 languages.